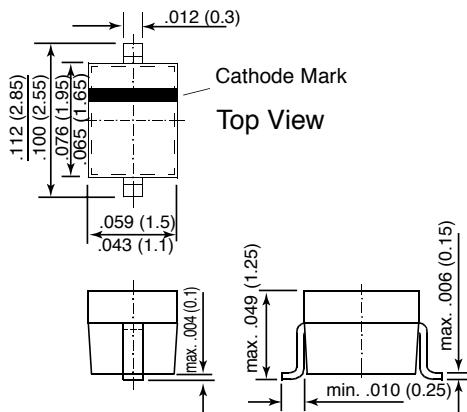


SD106WS

SCHOTTKY DIODES

SOD-323



Dimensions in inches and (millimeters)

FEATURES

- ◆ Low turn-on voltage
- ◆ Fast switching
- ◆ Microminiature plastic package
- ◆ These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge.
- ◆ Ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications.



MECHANICAL DATA

Case: SOD-323 Plastic Package

Weight: approx. 0.004g

Marking Code: S2

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V _R	30	Volts
Forward Current	I _F	200	mA
Forward Surge Current, t _p = 10ms	I _{FSM}	1.0	A
Power Dissipation T _C = 25°C	P _{tot}	250 (NOTE 1)	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-65 to + 150	°C

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage at I _R = 100 μA	BV _R	30	—	—	Volts
Leakage Current at V _R = 30 V	I _R	—	—	5.0	μA
Forward Voltage at I _F = 2.0 mA	V _F	—	260	—	mV
at I _F = 15 mA	V _F	—	320	—	mV
at I _F = 100 mA	V _F	—	420	—	mV
at I _F = 200mA	V _F	—	490	550	mV
Junction Capacitance at V _R = 10V, f = 1.0MHz	C _{tot}	—	—	Max 15	pF